

SUBSTITUTE SPECIFICATION
ELECTRONIC CALENDAR SYSTEM

Related Application(s)

[0001] This application is related to co-pending application Serial No. 09/607,638, filed June 30, 2000, entitled "Method and Apparatus for Touch Screen Input", Serial No. 09/659,416, filed September 11, 2000, entitled "Network with Mobile Terminals as Browsers having wireless access to the Internet and Method for Using the Same" and continuing application of the previous having Serial No. 09/607,637 filed on September 11, 2000 and Serial No. 09/609,581 filed June 30, 2000 entitled "Network with Mobile Terminals Having Wireless Access to the Internet and Method for Using Same" and Serial No. 09/607,369 filed June 30, 2000 entitled "User Interface Constructed from Components Created from Set of TAGs" and Serial No. US 09/608,174 filed June 30, 2000 entitled "Handheld Terminal with Multiple Scrolling Means" and Serial No. 09/607,359 filed June 30, 2000 entitled "System and Method for Providing a Virtual Keyboard for a Wireless Terminal". This application is also related to other applications (~~Attorney Docket Nos. 017.38954X00-017.38960X00 and 017.38962X00~~) Serial No. 09/671,238, filed September 18, 2000, Serial No. 09/714,939, filed November 20, 2000, and Serial No. 09/725,249, filed November 29, 2000. These are all assigned to and commonly owned by Nokia Corporation and are herein incorporated by reference.

BACKGROUND OF THE INVENTION

Field of the Invention

[0002] This invention relates generally to a calendar shared between family members and, more particularly, to a calendar which can be accessed from wireless devices by members of the family.

Discussion of the Prior Art

[0003] Since members of present day families have active lives outside the family, they often have schedules beyond family events, and it is desirable that some kind of common listing of various activities of the family members be available for planning purposes. One of the simplest methods of doing this in the past has been taking a paper calendar and posting it in a common area of the household so that various scheduled events can be listed together. While such a system is convenient in terms of simplicity of use and easy scanning, there are some drawbacks to this type of system. In particular, in order to access this system, it is necessary to physically be present at its location. Thus, it is impossible for a family member to obtain information about events unless they are he or she is at home and in front of the calendar. Also, there is some difficulty for recurring events in that they must be entered manually a number of times. While this system is very workable, these drawbacks make it less convenient for family members who are away from home most of the day.

[0004] A more recent suggestion for an electronic calendar is described in U.S. Patent No. 6,018,343, which uses a web based system so that individual calendars can be accessed from their own computers. However, this does not

provide a system, which ~~system which~~ is easily shared among multiple users of the same family. Also, it is still necessary for a user to be at his or her computer in order to utilize this system.

[0005] Another recent development is referred to as the "Ericsson Air Calendar". This system utilizes a wireless telephone to allow access to calendar information on the web or on a corporate network. This system utilizes synchronization between the phone and the air calendar server. The desired access to one user's calendar may be granted to other users to facilitate scheduling.

[0006] While these systems do not require a physical centrally located calendar, the ability to share information is still limited, and the use of a single calendar also for individuals within the family is not easily provided. In addition, the use of such a calendar to interact with other family related devices is not available.

SUMMARY OF THE INVENTION

[0007] Accordingly, the present invention provides a calendar system, which ~~system which~~ may be accessed by wireless devices from several family members.

[0008] The present invention also provides a wireless calendar system, which ~~system which~~ allows access by different members of a family ~~in to~~ a common calendar.

[0009] The present invention further provides a family calendar system which is accessed by wireless units and which also interacts with other family devices such as message boards and address lists.

[00101] The present invention still further provides a family calendar which is accessed by wireless devices and which is part of a family information system.

[00111] The present invention also provides a wireless family calendar having month, week and day displays, with the month display being linear.

[00121] ~~This is~~ These advantages are achieved by providing a central server, which is wirelessly connected to ~~terminals, terminals and~~ which stores both individual and family calendars. Other family information, such as information about friends, may also be stored and may interact with the calendar. Events are easily added or modified by using a terminal of the system ~~authorizing the~~ authorized to access to family calendar services.

BRIEF DESCRIPTION OF THE DRAWINGS

[00131] A more complete appreciation of the invention and many of the attendant advantages thereof will be readily obtained as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings, wherein:

[00141] Figure 1 shows the overall system of the present invention;

[00151] Figure 2 shows a terminal of a system; and

[00161] Figure 3 shows a server of a system; and

~~Figure 4 is a display of a week of the calendar of the present invention; and~~

[00171] ~~Figure 5 is~~ 4 depicts a display of a week of the calendar of the present invention in which screen areas are identified; and

~~Figure 6 is a display of a day in the calendar of the present invention.~~

[00181] Figure 7 is 5 depicts a display of a day in the calendar of the present invention in which detailed screen area is identified.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

[00191] Referring now to the drawings, wherein like reference numerals designate identical or corresponding parts throughout the several views, and more particularly to Figure 1 thereof, wherein one example of the environment-invention is the system 10 of the present invention is shown as including which includes terminals 20, 20a, 20b, 20c, each coupled over a wireless system to an access point 22, 22a. The access point is points 22, 22a are coupled 22 to a network e.g. owned by network, which is owned, for example, by an operator-like such as an internet-Internet service provider 24 and which is coupled to the internet Internet 26. In addition, the network such as internet-Internet service provider 24 is coupled to a mobile display appliance server 28 that provides the users with specific services and features through their wireless terminals 20, 20a, 20b. Alternatively, the access point 22 can be connected directly to server 28 via any network connection.

[00201] It is also possible that a terminal 20c outside the service area of access point 22 may be connected to server 28 by instead being in the vicinity of another access point 42, which 42 which then is connected to server 28 through e.g. internet-, for example Internet service provider 44, and 44 and the internet-Internet or other network.

[00211] The access point 22 is also coupled to a global unit or product vendor 34. The address of a global address registry 36 with a within global unit 34 is

known by the terminals 20, 20a, 20b. A direct connection is established between terminal via a network access point or server of Internet Service Provider 24. As ~~according~~ According to one alternative addressing scheme to this chosen exemplary system environment of the invention, an address of a server 28 is received ~~to by the terminal and the network node, where from~~ which the request to global register was made. After the terminal has knowledge of the address of the server 28, a direct link can be made from the terminal to the server. The internet address of a global unit 34 with the global address ~~server register~~ server registry 36 is permanently contained in the memory of each terminal 20, 20a, 20b, 20c. The global address ~~server registry~~ 36 is a place from which all the terminals may fetch ~~the internet address from~~ Internet addresses through their respective remote server. The initial configuration information and or the configuration of a direct link is loaded down to the terminal ~~from the remote server to the terminal where it was~~ is stored as part of the configuration information. This information can be updated from, ~~e.g. for example, the internet~~ Internet service provider 24, access service provider or mobile access provider from time to time. The configuration and the addressing of the terminal in the system, as well as any direct address link configured to the terminal user interface, is also updated down to a remote server when it is changed. The global unit 34 includes a global address server 36 and a global upgrade server 38. The vendor of the system terminal is connected either directly via a network, for example ~~e.g. the internet~~ Internet, to each remote server 28 or is connected in a more centralized way first to the server of the terminal vendor and from there onto each server 28. The advantage of having the terminals store the ~~internet~~ Internet address of the global address server 36 is that

if the terminal 20 is relocated near another access point, then the terminal 20 may still obtain the ~~internet~~Internet access location of server 28 simply by knowing the ~~internet~~Internet address of the global address server 36. It would also be ~~possible, to~~possible to instead have a system where the address of the server 28 is stored in the terminal 20 and the memory is updated as needed. The server 28 authenticates, using the unique identity of the terminal 20, that the terminal 20 has shared or group access privileges. Accordingly, the terminal 20 is authenticated and logged onto the server 28 to begin a shared session at a shared or group level.

[0022] After the terminal has been authenticated and the terminal has received the downloaded configuration information of services, user interface and links configured concerning the services and ~~interface~~the main view of the user interface of the terminal, which is a part of the downloaded information to the terminal, the terminal is ready to be used. Then each terminal includes a unique identification ~~(ID), the~~(ID). The IDs are reserved and used by members belonging to the same group. Each of the unique identifications of the terminals is recognised~~recognized~~ in the same server 28 to be used by the members of the group. Every member belonging to the respective group may use the same terminal. When one or more terminals ~~each of the terminals~~exist including a unique terminal identification is switched on, then each terminal belonging to the same group requests from the global address server 36 ~~with terminal~~a unique identification ~~the terminal identification.~~ ~~address of the server 28 in which the applications and services are stored and ready to be used.~~ Then each of the terminals belonging to the same group will get obtain the address of the same

server 28 into which each of the terminals is connected. Thus, the user can now access services or retrieve information from the server 28 or the Internet 26.

[0023] In addition ~~to the terminal to be~~ being used to access and use the services of the group, the terminal can be used to access services of an individual user. In order for the user to initiate an individual session and retrieve individual information, the user must use the terminal 20 and provide further authentication to the server 28 to gain access at the individual level. As would be appreciated by one of ordinary skill in the art, either at the shared/group or at the individual level, the user is able to the retrieve the information related to the group of users as well as to browse the Internet 26 to retrieve information.

[0024] The mobile terminal to be used can be an ordinary PC and a wireless modem ~~being able configured~~ to establish a wireless connection via a mobile service operator to the server 28 having capability to be in connection to the network. A mobile terminal can be such a terminal that as is described in detail in any of the ~~still secret copending~~ U.S. patent applications US-09/607,637, US 09/659416 or US-09/609,581.

[0025] FIG. 2 is a more detailed block diagram of a terminal, which shows the calendar application of the invention ~~embodiment on the display operating within~~ the system shown in FIG. 1 when the terminal is used in such a way, ~~that way that~~ a calendar application is selected as ~~the used service at the time~~ as the service. Referring to Fig. 2, the terminal 20 includes a display 70, a user interface (UI) framework 72, a browser 74, a driver 76, and processor 78. Each element is shown here for reference only, and the location of each element is not intended to

be a defined location of one element relative to the other elements. For example, the user interface 72 may be located in the display, as a part of the display, or independent of the display.

[0026] When the user accesses a service like a calendar service or retrieves information from the server 28, the browser 74 (in Fig. 2) is the program product that is in charged to convey the service specific information and the main view of the selected application service such as calendar service from the server 28 (of Fig. 1) to the terminal 20 (of Fig. 1 and 2).

[0027] FIG. 3 is a more detailed block diagram representation of the server 28 of the system of the network shown in FIG.1. In FIG. 3, the server 28 includes a support server 46, a response handler or application server 48, a network application server 50, and a directory server 52. As would be appreciated by one of ordinary skill in the art, the referenced connections do not depict the physical connections between the elements but merely logical connections. The support server 46 provides services oriented towards enabling and supporting the services provided to the terminal 20. The support server 46 includes an upgrade service unit 54, a bookmark service database unit 55, a login services unit 56, a bookmark database 57, a profile services unit 58, a client log unit 59 for collecting information about clients, an advertisement services unit 60, a system log unit 61 for collecting information about events in the server 28 from the client log unit 59, an administrative services unit 62, a defined services unit 64, and a directory client unit 66.

I00281 Still referring to FIG. 3, the upgrade services unit 54 is dedicated to controlled software upgrade of the software for the support server 46. Updates are transmitted from the global upgrade server 38 (in Fig. 1) to the upgrade service unit 54. The login services unit 56 provides for authentication of the user and the terminal 20 that is being used to access the services based on information provided by the client unit 66. Additionally, the login services unit 56 is also responsible for log-off activities, such as individual session termination. The profile services unit 58 provides for modifying a user's profile information. This modification of a user's profile may include modifying the group and individual information and preferences. The administration services unit 62 provides for administration of the support server 46 and the application server 48. The software product updates are transmitted from the global upgrade server 38 (in Fig. 1) and its configuration tool manager to the upgrade service unit 54 in Fig. 3 and its configuration tool client. The configuration tool client is the function unit, ~~that unit that~~ acts when any configuration tool manager 38 (in Fig. 1) of management server 37 (in Fig. 1) upgrades any software component, full executable software program or re-configures configuration parameters; ~~application parameters, application~~ and system parameters.

I00291 In Fig. 1 a firewall 40 is protecting the connection to and from the global unit 34. It will be apparent to those skilled in the art that the firewall unit 40 functions to provide secured access to the global address server 36 and the global upgrade server 38. In Fig. 3, ~~The~~ the advertisement services unit 60 provides for the server 28 to tailor advertisements to the user and the terminal 20

according to the user's profile information. The defined services unit 64 is a classification of "other services" containing items such as bookmark management services, help services, ~~and~~ log services, name management services, and general management services. The directory client unit 66 is coupled to the directory server 52 to provide client verification.

[0030] In ~~figure Fig. 3-~~ the remote register management and control unit 67, that knows the closest or the global terminal validation register address, ~~and control unit 67~~ may also interpret the answer received from said this register. Typically, in the terminal in ~~the~~ the browser login action, the server 28 browser client specific parameters 68 are managed individually. ~~That~~ The management information of one terminal browser session is stored and used when request is received from an identified terminal 20. Other requests received from terminals (20a or 20b) processing different identification information (IDs) will use browser client specific parameters (68a, 68b) and may result in, for instance, seeking of bookmarks for the terminal when the action request originated from that terminal.

[0031] In Fig 1. the terminal 20, 20a, 20b, 20c may have access through proper authentication and service purchases to third party publications available from a vendor 33, such as news related information found in magazine publications or the daily newspaper.

[0032] The user interface of the terminal 20 (of Fig. 1) offers ~~for~~ the user alternative selections means to select commands s and a target to the command in the main menu of the terminal view or in an application such as a calendar that is used at a time.

[0033] The marker or selection means, ~~that means that the~~ user can use is one of the means in the following list; ~~external list:~~ an external mouse that is connected to the terminal, an external keypad that is connected to the terminal, a visual and a virtual keypad that is displayed to the touch sensitive screen (and described in detail in the cross referenced U.S. patent application US-09/607,359), a direct manipulation selection arrangement made with fingertips or e.g. for example a pen to touch sensitive screen user interface selections (as described in detail in US patent application 09/607,638), the an integrated roller(s) in the terminal and roller control buttons (as described in detail in a cross referenced U.S. patent application US-09/607,359).

[0034] When the external mouse is used for marking the target into which the user's commands are to be directed, marking the target of the command is done typically by pressing one button once (the left most button). Then an application specific command is typically selected from a menu (like an Edit menu) and then the selected command affects the previously marked target of the command. (This basic mouse selection pattern is currently known in any PC.)

[0035] When an external keypad is used, the marking or selection concerning the target of the selected command may be done by moving the active selection point ~~to~~ up, down, left or right with the "arrow buttons". The actual selection or marking is then done by pressing the <enter> button. Also as an alternative to moving the active marking with "arrow buttons" (->, <-, ...) the marking point can be moved, for instance, by pressing the "tab" button, and the user interface of the application may move the active marking position from one target to another in

such a way, ~~that way that~~ all the possible targets in one view, one at a time, ~~is~~ are available to be selected. Then the command that is to be processed for the selected target is typically given by pressing some button control, like for instance <ctrl> button and, ~~in at~~ the same time a character button (like "W") or two concatenation character button pressings (like "W" and "O", the first character defining the menu set and the second the command in that menu set, or the first character defining the command and the second target ~~where to~~ which the response is directed ~~e.g for example~~. save to memory). (This kind of marking and selection is known at present in any PC user interface.)

I00361 When the virtual keypad is used for the marking or selection, marking the target and giving a command may be done similarly as above described for the external keypad case, but instead of using "arrow buttons" or "tabs" to select or mark the target and character or function buttons to give certain commands to selected target, the user may do the keypad button selection with his fingertips directly to display "the soft keys". The soft keys are the keypad buttons drawn on the touch sensitive display to look like hard button keys of the keypad). ~~(This~~ The virtual keypad means and methods are currently presented in at cross-referenced U.S. patent application US-09/607,359.

I00371 -When direct manipulation selection is used, the application that is used can be controlled from the user interface by the user ~~making first~~ selecting the target by directly touching the target area in the touch sensitive display. In the next step a menu of commands or a command button is selected (from the view if presented at the moment), and in the third step ~~is when the given command is~~

processed for the selected object. Possibly a status indication of the processed command is shown in the display of the user interface. (The direct manipulation methods are presented in ~~currently secret~~U.S. patent applications ~~US~~ 09/607,638.) The terminal 20 (in Fig. 1) user issues commands to the terminal 20 and the server 28 by using direct manipulation and from menu-type of UI controls (object menu, toolbar etc.). ~~He~~ The user either presses the hardware or software button down, keeps ~~his~~ a finger on the hardware or software button for a longer period, moves ~~his~~ the finger over the touch-sensitive touch screen and lifts ~~his~~ the finger from the hardware or software buttons. All of these basic user interactions – or basic user events – need to be detected by the hardware and software. Hardware and software buttons are therefore at the particular software level considered identical. From a user interaction point of view they are to be considered ~~even~~ to be identical.

[00381] Depending on the used service application and the user given selection and command from the terminal interface, the given command may affect the application content information of the service used by the group members. The authenticated group member may change the group calendar content according to a given command in such a way, ~~that way that~~ other authorized members of the same group get the latest group calendar information from the server 28.

[00391] ~~As noted in related case (Attorney Docket No. 017.38962X00)~~ U.S. Patent Application 09/725.249, when this system is actuated from a wireless device, the first view is of a bulletin board containing messages for members of the group, which is also known as a family. Other tabs are available for displaying

other functions of this system. In particular, the third tab, indicated by a calendar, is actuated to show the calendar feature. Of course, the system may have only the calendar function if preferred, or may be set so that the calendar function is displayed when first actuated.

I00401 Figure 24 shows the week view display generated when the calendar is actuated ~~(in the screen area 1)~~. However the calendar application may be configured alternatively to show first ~~other~~ another view like ~~e.g. for example a~~ monthly view. The top section of the display is another screen area ~~(the screen area 2)~~, than the week view or the initial calendar view area. The other view area ~~(the screen area 2)~~ can be a month frame, ~~which~~ frame which lists for example the name of the month and displays in a linear fashion, or ruler presentation, the days of the month in a line. ~~By talking of The~~ frame it does not tie the technical implementation to certain user interface software architecture, ~~that~~ architecture that is composed of frames like in MSWindows™, but instead the example of the interface of a calendar week view presented in Fig. 4 looks like view areas of an ~~essentially square or like the a frame~~ rectangular notice. In the month ruler presentation, the days of the week corresponding to each date ~~is~~ are also indicated immediately below the number. A week designation may also be displayed at the beginning of each week. Thus, it is common in many countries to number the weeks of the year and this is so indicated. Forward and backward arrows are also included near the month name which, when actuated, produces a display of the previous or succeeding month. If actuated repeatedly, months in the previous or succeeding year will also appear.

[0041] Beneath the month display ~~is a~~are seven column displays, which are shown in Fig. ~~5-4~~5.4 in a week view in such a way, ~~that way that~~that certain screen areas are marked (in the screen area 3A in Fig. ~~54~~5.4) for indicating the current week and the activities for the days of that week. A different week can also be displayed by selecting that week in the month frame (the screen area 4 in Fig. ~~54~~5.4). However, the current week will always be the default setting. Each of the seven columns represents the schedule for one day of the week.

[0042] By selecting one of the seven columns, the display will be changed to a day view as shown in (Figures 4, 5, 6 and 7. As shown in this figure 5, ~~the~~The month arrangement ~~(the screen area 2)~~ will remain at the top of the view, along with the tab indicators ~~(in the screen area 1)~~. (In Figure 6 is presented a day view of the calendar.) ~~In Figure 7 is shown~~6 shows a day view of the calendar in which a certain screen area is marked in detail. However, in the day view the lower section (the screen area ~~3B~~3B in Fig. ~~75~~7.5) will be arranged to list in order the events for that day, in a similar fashion to the week display (in Fig. ~~6 and 75~~6 and 7.5), but with more space being allowed for comments and explanations. The actual times may be present in the daily display (in the so-called day view in Fig. ~~6 and 7, 5~~6 and 7.5) that would not normally be shown in the weekly display (in the week view in Fig. 4 and ~~5~~5). A color coding may be used in both the daily (in the day view) and weekly (in the week view) displays if so indicated when the event is input. A color coding may be used to indicate events for different members of the family, relative importance of the event or type of event.

[0043] New calendar events are created in a certain standard way (in a same and pre-defined way) from a service menu. The user of the terminal first selects a particular day and then a new calendar event view is shown in the display. A virtual keyboard is shown so that the new event can be typed and other information regarding its occurrence can also be determined. It is also possible to modify any event already in the agenda by clicking on that particular event. If an external keyboard is connected to the terminal, the information can be typed by using it instead of the virtual keyboard.

[0044] Additionally the input interface enables direct manipulation of the visual representations of the calendar events. The user is able to create and edit events in the same views of the system where the information is presented.

[0045] Each day's events are sorted according to time if desired. Events that have no specific start time are displayed on top. It is also possible to instead sort the events by type or alphabetically. According to user interface style definition of the terminal interface of the system, there is always one-day event row selected. When an object (the target to be given command) is selected, in the user interface is shown an object menu symbol, from which the user can select ~~commands, that affects~~ commands that affect the selected object (the target of the given command). The user of the terminal may select different objects (the targets), use different selection markers (e.g. for example, like an external mouse, integrated rollers to the terminal and its control keys, direct manipulation means, external or virtual keyboard) and ~~object menu~~ follow the present selection visually in the user interface display. When a new calendar event is entered, both the start and end

~~time~~ times are specified. In addition, it is possible to select a color to mark the calendar event. If a color is not selected, a default color is used which can be keyed to the particular user, or other defaults may be set.

[0046] Each new event is also designated to either be listed on the family calendar or just on the individual's calendar. Thus, any member of the family can look at and add to the family calendar and also look at and add to their private calendar, but cannot look at and add to another's private calendar.

[0047] The starting and ending times may be entered in different formats as predefined by the user. Thus, the use of a.m. and p.m. may be selected or military time. A colon or a period may be used between hours and minutes. Initial zeros may be suppressed or not, as can ending double zeros. Default settings for beginning of the day may be 8:00 or other times and ending times may be 8:30 p.m. An event may be indicated as being an all day event if desired.

[0048] An event may also be indicated ~~as to reminders~~ a reminder. That is, if selected, a reminder is placed on the family notice board (in note format at the appropriate time) ~~as described in co-filed in another patent application with this invention description~~. The beginning and ending time that the note should be displayed may be set in terms of hour, days, months, etc. If the event will occur more than once, a recurrence button may be pressed and the number of days or weeks that it will reoccur is indicated. In doing so, it is only necessary to type up the event once and it will then be copied the requisite number of times. All fields in a new event –dialog (the new event editing display view section in the user interface), contain default values in such a way that in the ~~most~~-simplest method

the user enters information by selecting the day and writing the description of the event (the content). Although the term family has been used above in the traditional sense of a nuclear family living together, it is also possible for the system to operate for a number of people who share quarters but are otherwise unrelated. It would also be possible to utilize such a system for any other grouping of people having a common business or hobby interest.

[0049] Another function available to this wireless system is the storage of ~~people~~ personal information. This information may be viewed by touching the tab on the right in the main view of the display. This tab is indicated by a drawing or an image of ~~presenting several~~ people. For each person listed, it is possible to gather at one place appropriate information regarding that person. This would include name, address, phone number, email address and possibly other data such as birth dates.

[0050] It would also be possible to list ~~some~~ more information for a group of a people. The information in the group would then include individuals which could be listed separately.

[0051] When a new person is to be added to the listing, a new contact card is created when the user pushes a "new card" -button. The information regarding that person is then entered into the various fields. The information may include more than one phone number, email address or actual address if the person has both a work and home phone or a summer and winter residence. Various other pieces of information may also be added such as a birthday or other appropriate date. When a new person is added, a button, which indicates that the person

belongs to a group (that is for instance another user group called a family or a club) can be pressed in order to bring up a listing of different groups. The appropriate groups are then indicated and that person would be automatically added to those groups. When a birthday or other day is indicated, it is possible to indicate whether this day should be displayed on the calendar application on a regular basis. Similarly from any other application from the system can be brought event(s) to the calendar application. From the calendar application when a certain predefined rule expires like advanced defined time to do something (like a week time to do anything necessary according to the content of an event) ~~pre~~ a certain defined time like a birthday, or an event is created ~~to~~ in another application of the system, for instance, the notice board.

[0052] Once this information is placed in storage, the indicated dates will appear on the calendar in a standard fashion. In addition, if messages are being sent to listed people, it is possible to rely on this information to obtain the appropriate address or telephone number. For example, if a reminder is placed on the calendar and this reminder relates to sending a message to someone outside the family, the call can be made using the information stored in relation to each person.

[0053] Thus, this arrangement not only makes it possible to store information concerning outsiders in the same fashion as a traditional telephone list, but it allows interaction between the listings of outside people and the calendar in order to list important dates and also allows for interaction with the message board for placing calls.

[0054] Instead of using the system terminal as the user terminal, it is also possible, that the user may be connected to the server 28 (in Fig. 1) of the group by using an ordinary PC and a modem 21 ~~connection (wired or wireless)~~21 in Fig. 1 21 connected to the network by a wired or wireless network 31.

[0055] Numerous additional modifications and variations of the present invention are possible in light of the above teachings. It is, therefore, to be understood that within the scope of the appended claims, the invention may be practiced otherwise than as specifically described herein.

ABSTRACT OF THE DISCLOSURE

A wireless system having a central family calendar. Individual family members may access the family calendar from their wireless devices. The system also includes telephone and address information for non-family members. Important dates such as birthdays, associated with the non-family members may automatically appear in the calendar. The system may be incorporated into other family accessible devices such as a family bulletin board.